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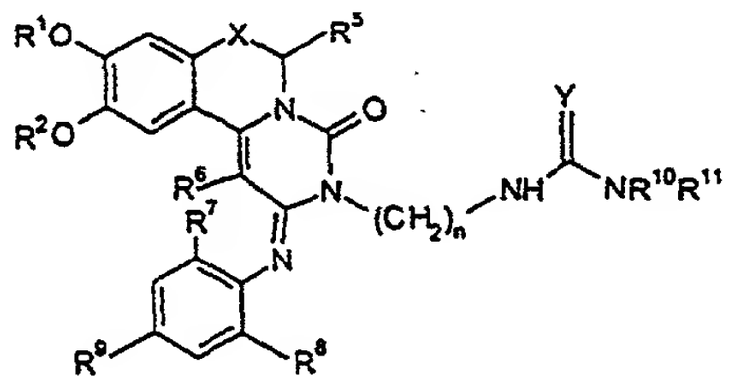
(54) Title: DERIVATIVES OF PYRIMIDO[6,1-a]ISOQUINOLIN-4-ONE



(I)

(57) Abstract

Compounds of general formula (I) wherein each of $R^1$ and $R^2$ independently represents a $C_{1-6}$ alkyl or $C_{2-7}$ acyl group; $R^5$ represents a hydrogen atom or a $C_{1-3}$ alkyl, $C_{2-3}$ alkenyl or $C_{2-3}$ alkynyl group; $R^6$ represents a hydrogen atom or a $C_{1-6}$ alkyl, $C_{2-6}$ alkenyl, $C_{2-6}$ alkynyl, amino, $C_{1-6}$ alkylamino, di($C_{1-6}$) alkylamino or $C_{2-7}$ acylamino group; each of $R^7$ and $R^8$ independently represents a hydrogen or halogen atom or a hydroxy, trifluoromethyl, $C_{1-6}$ alkyl, $C_{2-6}$ alkenyl, $C_{2-6}$ alkynyl, $C_{2-7}$ acyl, $C_{1-6}$ alkythio, $C_{1-6}$ alkoxy, $C_{3-6}$ cycloalkyl; and $R^9$ represents a hydrogen or halogen atom or a hydroxy, trifluoromethyl, $C_{1-6}$ alkyl, $C_{2-6}$ alkenyl, $C_{2-6}$ alkynyl, $C_{2-7}$ acyl, $C_{1-6}$ alkythio, $C_{1-6}$ alkoxy or $C_{3-6}$ cycloalkyl group; X represents $OCH_2$ or a group $CR^3R^4$, wherein each of $R^3$ and $R^4$ independently represents a hydrogen atom or a $C_{1-3}$ alkyl group; each of $R^{10}$ and $R^{11}$ independently represents a hydrogen atom, a $C_{1-3}$ alkyl, $C_{3-6}$ cycloalkyl or phenyl group; y represents an oxygen atom or a group $CHNO_2$, NCN, NH or $NNO_2$, n is an integer from 2 to 4; or a salt thereof; are useful for treatment of respiratory disorders such as asthma. Compounds of the invention have a longer duration of action than the known compound trequinsin (9, 10-dimethoxy-3-methyl-2-mesitylimino-2,3,6,7-tetrahydro-4*H*-pyrimido[6,1-a]isoquinolin-4-one) and do not have trequinsin's very bitter taste.